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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,504	01/02/2004	Klaus Redecker	DP-314006	8691
	7590 10/14/200 INOLOGIES, INC.	EXAMINER		
M/C 480-410-2		FELTON, AILEEN BAKER		
PO BOX 5052 TROY, MI 48007			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			10/14/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/749,504	REDECKER ET AL.				
		Examiner	Art Unit				
		Aileen B. Felton	1793				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address				
WHIC - Exter after - If NC - Failu Any	CRTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING DA ISSIN (6) MONTHS from the mailing date of this communication. Poperiod for reply is specified above, the maximum statutory period of the reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on <u>6/30/</u>	/2008					
•		action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	Claim(s) 7,8 and 13-15 is/are pending in the a	oplication					
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>7,8 and 13-15</u> is/are rejected.						
· ·	Claim(s) is/are objected to.						
-	Claim(s) are subject to restriction and/o	r election requirement.					
		r diodioir roquiroiriona.					
	on Papers						
•	The specification is objected to by the Examine						
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice (3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 7 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 7, a claim scope of "consisting essentially of" is set forth. However, in the oxidizer part, a scope of "comprising" is recited. These differing scopes are in conflict, e.g., inconsistent, whereby the ultimate scope of the claims is indefinite.

Claim 8 includes terminology regarding MAK and TLV values, these terms are variable and thus render the claim indefinite. Also, note that since these represent industry standards, they are subject to change over time.

4. Claims 8, 14, and 15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no basis in the specification for the exclusion of chlorates or perchlorates.

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 7, 8, and 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Poole (5035757) in view of McCulloch (3725154).

Poole discloses a gas generating composition comprising a) aminotetrazole including 5-aminotetrazole, b) peroxides, c) alkaline earth metal nitrates, and d) carbonates (col. 5 and 6). Note that Applicant's claims do not require the reducing agent or coolant since the claim limitation recites "up to" which includes zero.

McCulloch teaches that it is known to use ferrocene as a catalyst in a gas generating composition (col. 3, lines 15-30).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the ferrocene as taught by McCulloch since McCulloch suggests that it is desirable to include ferrocene as a catalyst in gas generating compositions in order to control the burn rate and since Poole discloses that burn rate is a variable that is desired to control (col. 3, lines 59-63). It is also obvious to vary the amounts of the fuel and oxidizers in order to optimize the performance of the gas generating composition. It is well-settled that optimizing a result effective variable is well within the expected ability of a person of ordinary skill in the subject art. In re

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Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980), In re Aller, 220 F.2d 454, 105 USPQ 233 (CCPA 1955).

Response to Arguments

7. Applicant's arguments have been fully considered but they are not persuasive. Applicants arguments regarding the 112-2nd para. rejection are not persuasive. In Applicant's own response, it is indicated that these values can change over time, thus supporting the Examiner's argument that they are not definite.

Regarding the rejection over Poole in view of McCulloch, the Applicant argues hindsight reasoning which is not persuasive since it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

Applicant also argues that McCulloch uses perchlorate and chlorates, this is irrelevant since McCulloch is being utilized merely to show that it is known to use ferrocene as a catalyst to improve burn rate and since Poole suggests that it is desirable to improve the burn rate, the combination is obvious. One cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

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Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aileen B. Felton whose telephone number is
 571.272.6875. The examiner can normally be reached on Monday-Friday 6:30-4:00, except alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571.272.1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Aileen Felton/ Primary Examiner Art Unit 1793